



CETRA RUDDY

Lesson #2

Community School 300

8 April 2011

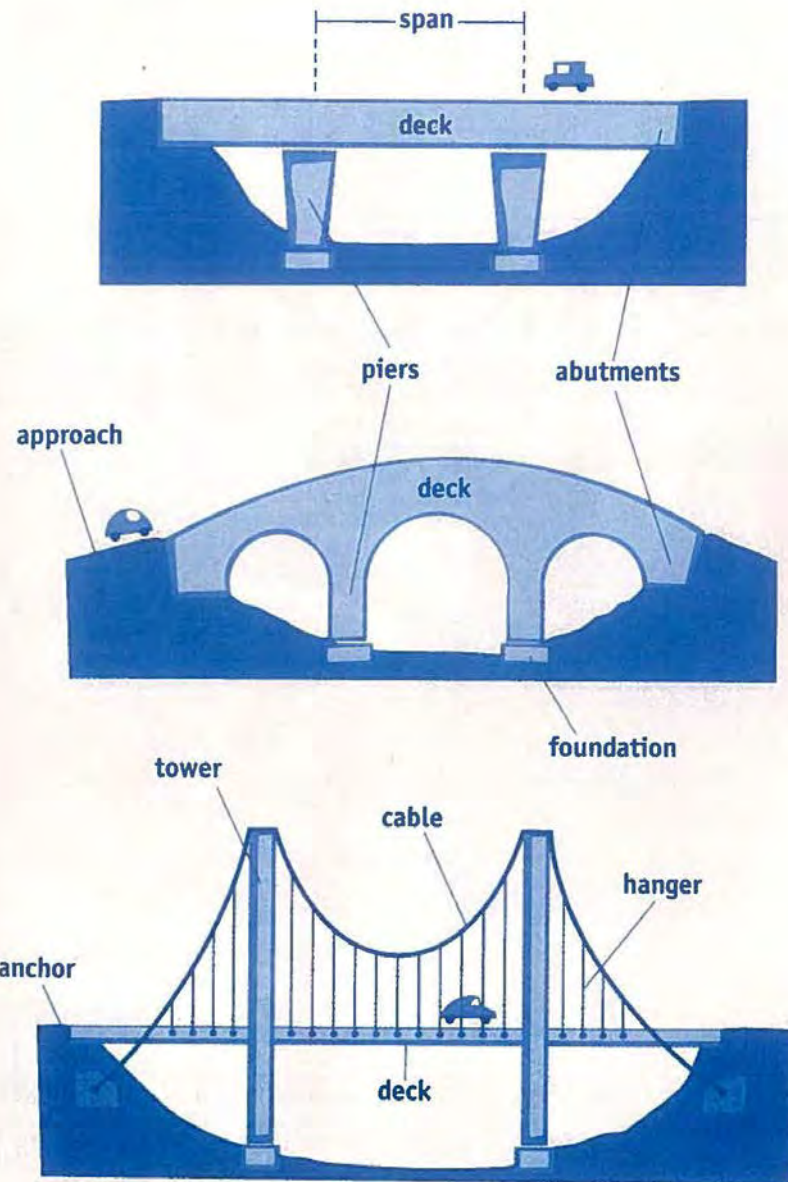
pencil

Transforming Schools. Together.®



BRIDGE BUILDING BASICS

What Makes a Bridge, a Bridge?

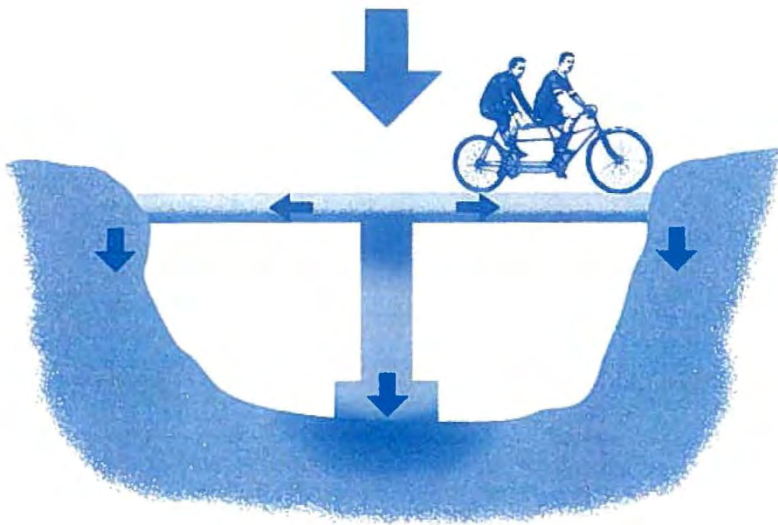


COMPRESSION & TENSION

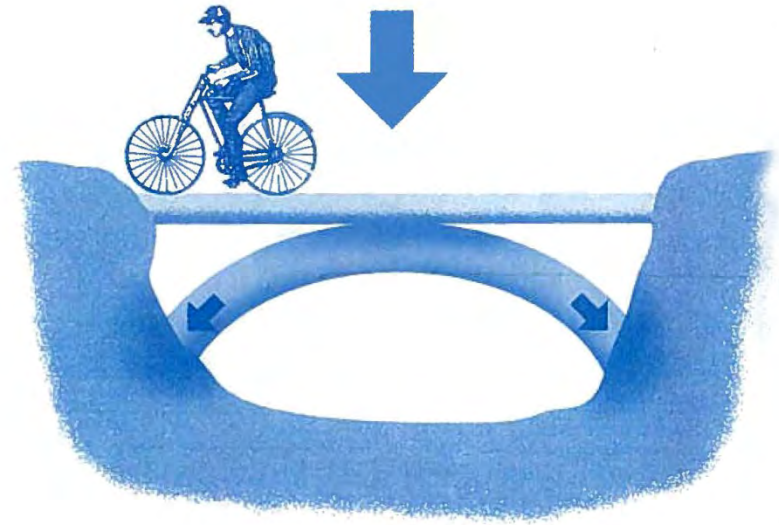
Push & Pull



Pushes and Pulls in Different Bridges

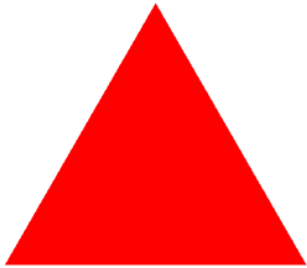


Beam



Arch

WHAT IS STRONGER?



Triangle

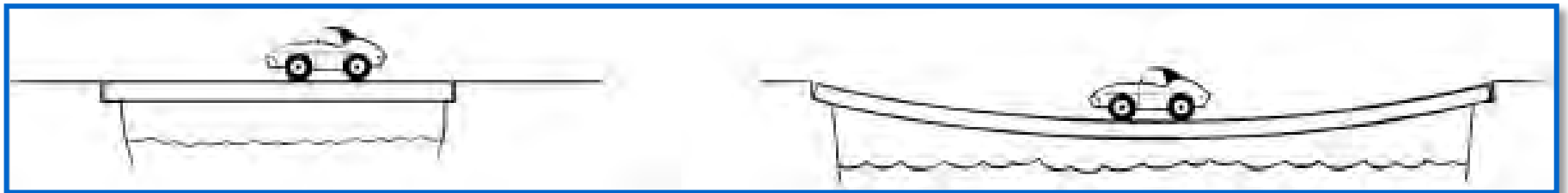
or



Square

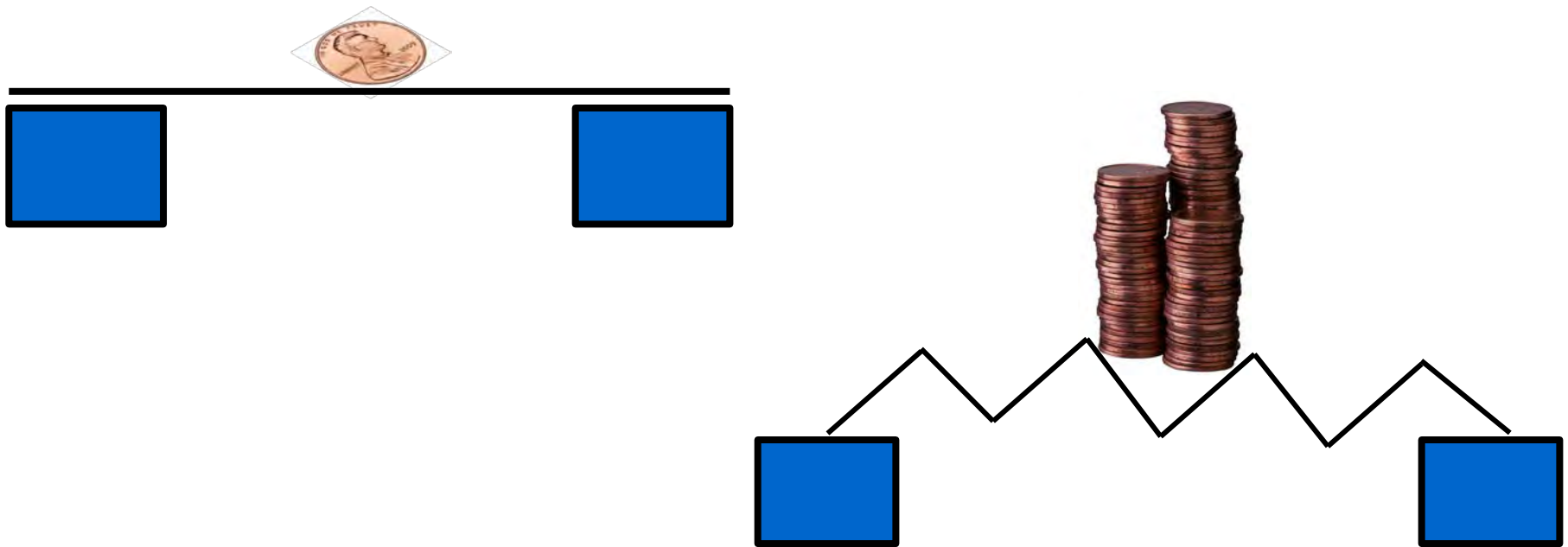
BRIDGE TYPES

BEAM BRIDGE

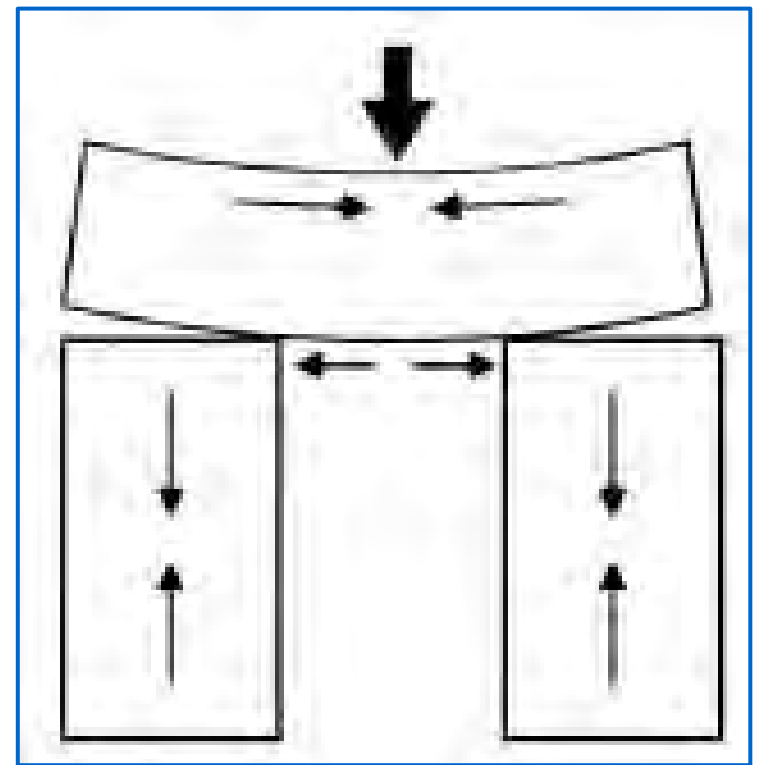
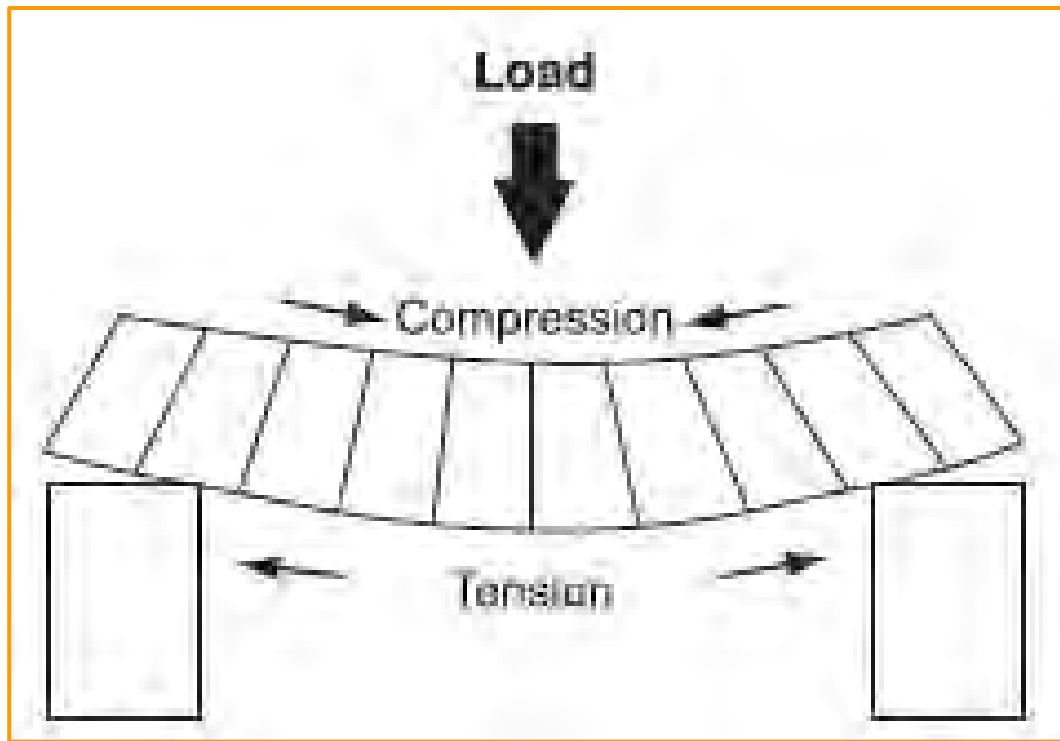




HOW MANY PENNIES?



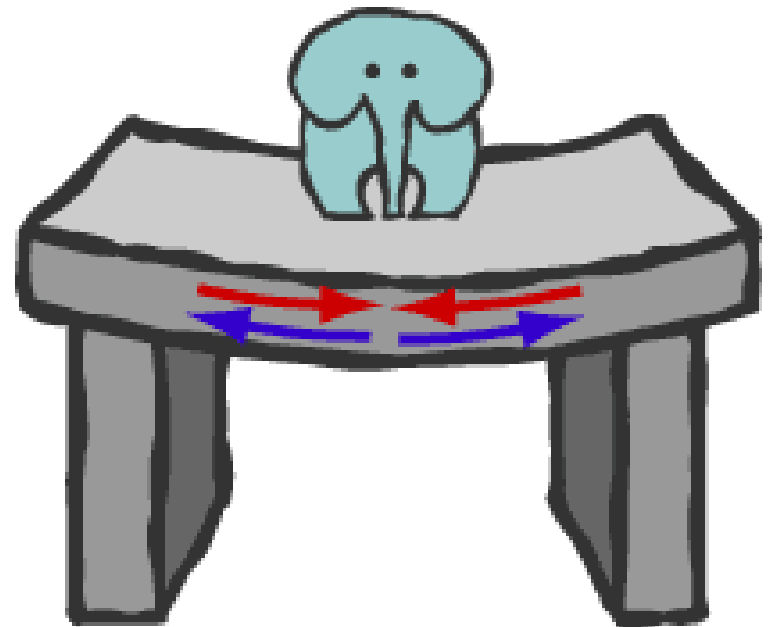
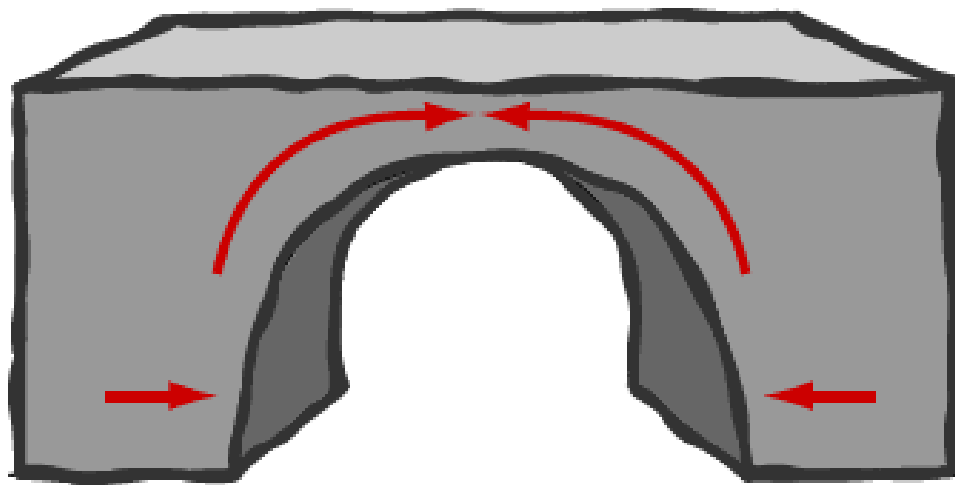
ROPE BRIDGE

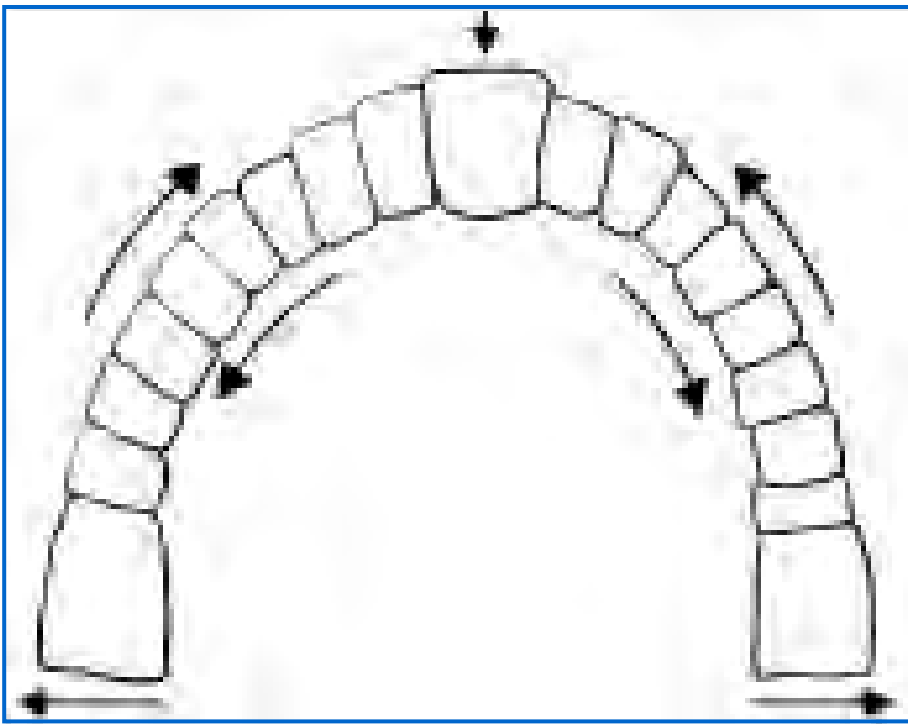






ARCH BRIDGE

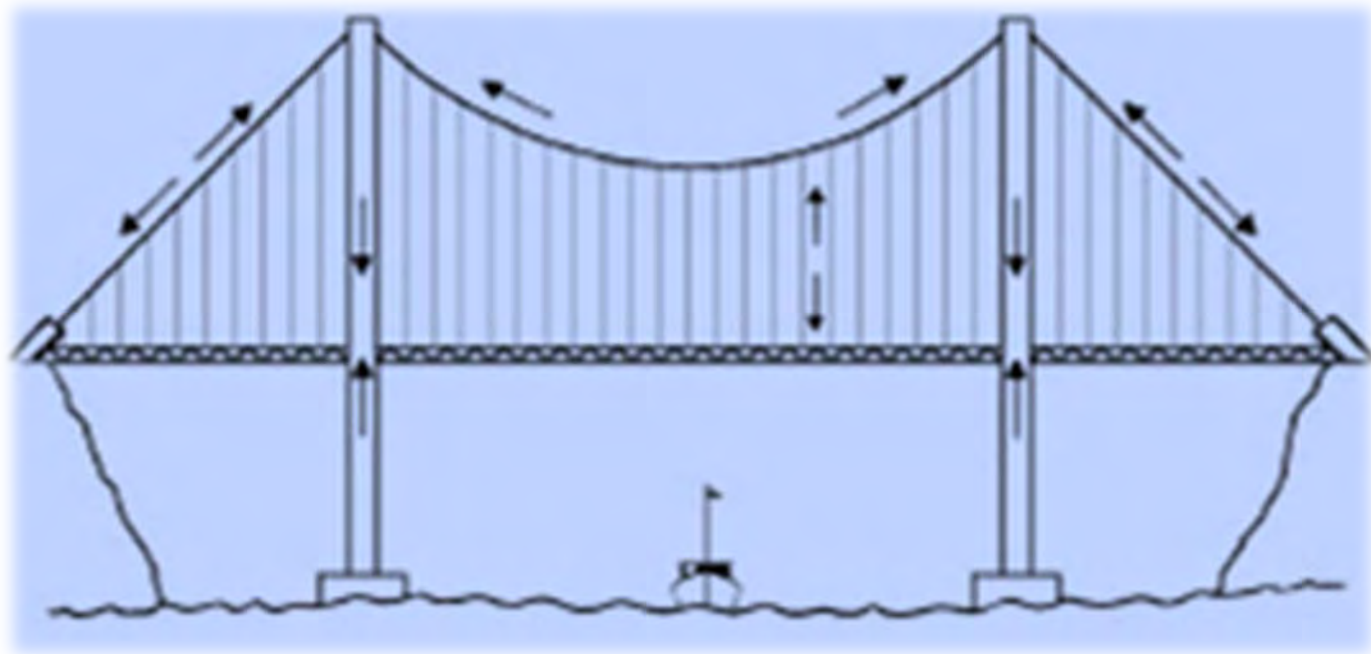








SUSPENSION BRIDGE



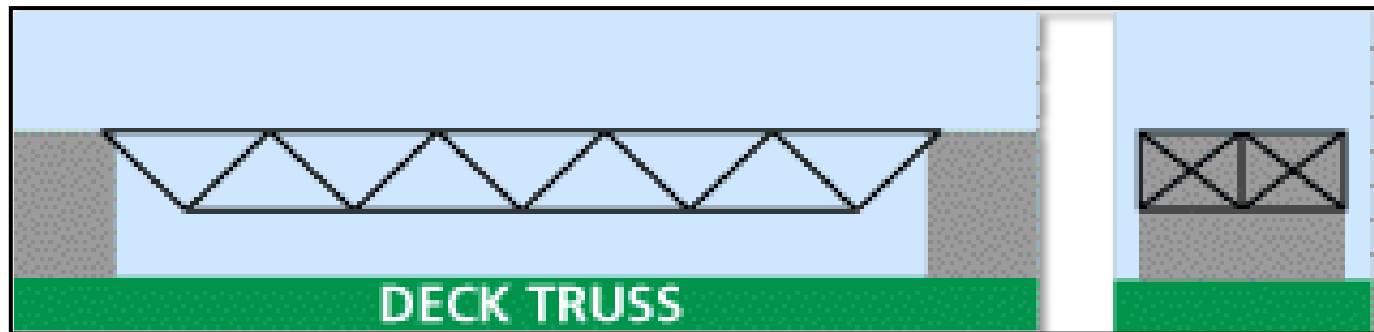








TRUSS BRIDGE







GUESS WHAT KIND OF BRIDGE?



High Bridge: New York, NY

ARCH & TRUSS COMBINATION!



TODAY'S ACTIVITY

Ready...Set...

GO!!!





CETRA RUDDY

Lesson #2

Community School 300

8 April 2011